

5. (Twice Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

a fixation device; and

a sensor support coupled to the fixation device and including a surface for receiving the sensor, wherein:

the fixation device is an anchoring ring,

the anchoring ring further comprises at least one piece of material having a perimeter and arranged as at least one sinusoid positioned perpendicular to a plane formed by a cross section of the anchoring ring.

7. (Amended) The apparatus of claim 5, wherein the sensor support is coupled to a peak of the sinusoid of the anchoring ring.

8. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising: a fixation device; and

a sensor support coupled to the fixation device and including a surface for receiving the sensor, wherein:

the fixation device is an anchoring ring,

the anchoring ring further comprises a plurality of ellipses, each having long portions and short portions, joined one to the other at approximately mid-points of the long portions.

11. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

at least one fixation device; and

a sensor support coupled to the fixation device and including a non-solder surface for receiving the sensor, wherein the at least one fixation device includes at least a first fixation device and a second fixation device, and the sensor support is coupled between the first fixation device and the second fixation device.

13. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

a fixation device; and

a sensor support coupled to the fixation device and including a surface for receiving the sensor, wherein:

the fixation device is an anchoring ring,

the sensor support comprises at least a first sensor support and a second sensor support displaced apart from one another within the lumen, the fixation device has a first end and a second end, and

the first sensor support is coupled generally adjacent to the first end and the second sensor support is coupled generally to the second end of the fixation device.

24. (Twice Amended) A method for fixation of a sensor in a bodily lumen, comprising the steps of:

placing the sensor onto a non-solder surface of a sensor support coupled to a fixation device;

inserting the fixation device into the bodily lumen; and

securing the fixation device within the bodily lumen, wherein:

the fixation device has an end, and

the sensor support is coupled to the end of the fixation device.

25. (Amended) A method for fixation of a sensor in a bodily lumen, comprising the steps of:

placing the sensor into a sensor support coupled to a fixation device in order to form a mechanical coupling between the sensor and the sensor support;

inserting the fixation device into the bodily lumen; and

securing the fixation device within the bodily lumen, wherein:

the fixation device has an end, and

the sensor support is coupled to the end of the fixation device.

39. (Amended) A method for fixation of a sensor in a bodily lumen, the sensor being incapable of having a perimeter thereof expanded to match that of the bodily lumen, the method comprising the steps of:

61 inserting the sensor into a bodily lumen; and
coupling the sensor to a section of the bodily lumen, wherein the sensor is coupled to the section of the bodily lumen using sutures.

40. (Amended) A method for fixation of a sensor in a bodily lumen, the sensor being incapable of having a perimeter thereof expanded to match that of the bodily lumen, the method comprising the steps of:

inserting the sensor into a bodily lumen; and
coupling the sensor to a section of the bodily lumen, wherein the sensor is coupled to the section of the bodily lumen using adhesive.

68 72. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a non-solder surface for receiving the sensor, wherein:
the sensor support is capable of maintaining the sensor at a distance away from the fixation device.

73. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a non-solder surface for receiving the sensor, wherein:
the sensor support is capable of maintaining the sensor at a location that is outside of an area encompassed by the fixation device.

69 75. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a non-solder surface for receiving the sensor, wherein:
the sensor support is capable of maintaining the sensor at a location that prevents the sensor from contacting the fixation device.

76. (Twice Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

610 a fixation device; and

a sensor support coupled to the fixation device and including a surface for receiving the sensor, wherein:

the sensor support has a shape that is unaffected by a joining to the sensor,

the fixation device has an end, and

the sensor support is coupled to the end of the fixation device.

77. (Twice Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

a fixation device; and

a sensor support coupled to the fixation device and including a surface for receiving the sensor, wherein:

the sensor support has a predefined and constant shape,

the fixation device has an end, and

the sensor support is coupled to the end of the fixation device.

78. (Twice Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

a fixation device; and

a sensor support coupled to the fixation device and including a surface for receiving the sensor, wherein:

the sensor support is formed of a non-fluid material,

the fixation device has an end, and

the sensor support is coupled to the end of the fixation device.